

ONLINE TICKET RESERVATION SYSTEM





BOOTCAMP



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DAY 2 SUBMISSION

LOGIN PAGE CODE:

```
package bootathon;
import java.util.regex.*;
import javax.swing.*;
import java.awt.*;
import java.awt.event.ActionListener;
import java.awt.event.ItemEvent;
import java.awt.event.ItemListener;
import java.awt.event.ActionEvent;
import java.sql.DriverManager;
import java.sql.*;
public class LoginPage extends JFrame{
      Container c=getContentPane();
      public int user_id=1000;
      int count=0;
      JPanel panel=new JPanel();
      Image icon = Toolkit.getDefaultToolkit().getImage("F:\\Bootathon\\railway.png");
      JLabel headingLabel=new JLabel();
      JLabel usertypeLabel=new JLabel();
```

```
JLabel usernameLabel=new JLabel();
JLabel passwordLabel=new JLabel();
JLabel nothavingLabel=new JLabel();
JTextField usernameField=new JTextField();
JPasswordField passwordField=new JPasswordField();
String usertype[]={"User", "Admin"};
JComboBox usertypeCombobox=new JComboBox(usertype);
JButton signinButton=new JButton();
JButton signupButton=new JButton();
JButton exitButton=new JButton();
public LoginPage() {
      setLayoutManager();
      setNavigationPanel();
      setLocationAndSize();
      addCompenentsToTheConatiner();
      addItemEvent();
      addActionEvent();
      frame();
public void frame() {
      setTitle("Login");
      setSize(750,600);
      setResizable(false);
      setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
      setIconImage(icon);
```

```
setLocationRelativeTo(null);
      setVisible(true);
public void setLayoutManager() {
      c. setLayout (null);
public void setNavigationPanel() {
      panel.setBackground(new Color(65, 105, 225));
      panel.setBounds(0, 0, 750, 80);
      panel. add(headingLabel);
}
public void addItemEvent() {
      usertypeCombobox.addItemListener(new ItemListener() {
             @Override
             public void itemStateChanged(ItemEvent e) {
                    if (usertypeCombobox.getSelectedItem() == "Admin") {
                           signupButton.setEnabled(false);
                    if(usertypeCombobox.getSelectedItem()=="User") {
                           signupButton.setEnabled(true);
      });
}
public void setLocationAndSize() {
      headingLabel. setBounds (90, 0, 550, 80);
```

```
headingLabel.setText("Railway Reservation System");
     headingLabel.setHorizontalAlignment(JLabel.CENTER);
headingLabel.setFont(new Font("Times Newroman", Font.BOLD, 20));
headingLabel.setForeground(Color.white);
     usertypeLabel. setBounds (235, 150, 100, 50);
     usertypeLabel.setText("Usertype");
     usertypeLabel.setFont(new Font("Times Newroman", Font.BOLD, 18));
     usernameLabel. setBounds (235, 250, 100, 50);
     usernameLabel.setText("Username");
     usernameLabel.setFont(new Font("Times Newroman", Font.BOLD, 18));
     passwordLabel. setBounds (235, 350, 100, 50);
     passwordLabel.setText("Password");
     passwordLabel.setFont(new Font("Times Newroman", Font.BOLD, 18));
     usernameField.setBounds(360, 262, 150, 30);
     passwordField.setBounds(360, 362, 150, 30);
     usertypeCombobox. setBounds (360, 162, 150, 30);
     signinButton.setBounds(210, 462, 100, 30);
     signinButton.setText("Sign in");
     signinButton.setBackground(new Color(65, 105, 225));
     signinButton.setForeground(Color.white);
     signupButton.setBounds(330, 462, 100, 30);
```

```
signupButton.setText("Sign up");
       signupButton.setBackground(new Color(65, 105, 225));
       signupButton.setForeground(Color.white);
       exitButton.setBounds(450, 462, 100, 30);
       exitButton.setText("Exit");
       exitButton.setBackground(new Color(65, 105, 225));
       exitButton.setForeground(Color.white);
}
public void addCompenentsToTheConatiner() {
       c.add(panel);
       c. setBackground (new Color (135, 206, 250));
       c. add (usertypeLabel);
       c. add (usernameLabel);
       c. add (passwordLabel);
       c. add (usernameField);
       c. add(passwordField);
       c. add(usertypeCombobox);
       c. add(signinButton);
       c.add(signupButton);
       c. add(exitButton);
}
public void addActionEvent() {
       signupButton.addActionListener(new ActionListener() {
             @Override
```

```
public void actionPerformed(ActionEvent e) {
              try {
                    dispose();
                    new SignupPage();
             catch (Exception ex) {
                    ex.printStackTrace();
             }
       }
});
signinButton.addActionListener(new ActionListener() {
       @Override
       public void actionPerformed(ActionEvent e) {
              try\,\{
                    signin();
             catch(Exception ex) {
                    ex.printStackTrace();
});
exitButton.addActionListener(new ActionListener() {
       @Override
       public void actionPerformed(ActionEvent e) {
             System. exit(0);
});
```

}

```
public void signin() throws Exception{
             if(usertypeCombobox.getSelectedItem() == "User") {
                    try {
                           int flag=0;
                           Class. forName ("com. mysql. cj. jdbc. Driver");
                           Connection con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/reservation?serverTimezone=UTC", "root"
,"");
                           Statement stmt=con.createStatement();
                           String user_name=usernameField.getText();
                           String pass_word=passwordField.getText();
                           String query="Select * from userid";
                           ResultSet rs=stmt.executeQuery(query);
                           while(rs.next()) {
                                  if(rs.getString("username").equals(user_name) &&
rs.getString("password").equals(pass_word)) {
                                        flag=1;
                                        break;
                                 }
                           if (flag==1) {
                                 System.out.println("Next page opens");//constructor should be
called
                                  dispose();
                           if(flag==0){
                                 JOptionPane.showMessageDialog(new JFrame(), "Check the username
and password or Please create an account ", " Account not found ", JOptionPane. WARNING_MESSAGE);
                                  dispose();
                                  new SignupPage();
                                                                                  Page 8 | 29
```

```
con.close();
                    catch(Exception e) {
                           e. printStackTrace();
             else {
                    try{
                           int flag=0;
                           Class. forName ("com. mysql. cj. jdbc. Driver");
                           Connection con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/reservation?serverTimezone=UTC", "root"
, "");
                           Statement stmt=con.createStatement();
                           String user_name=usernameField.getText();
                           String pass_word=passwordField.getText();
                           String query="Select * from admin";
                           ResultSet rs=stmt.executeQuery(query);
                           while(rs.next()) {
                                  if(rs.getString("username").equals(user_name) &&
rs.getString("password").equals(pass_word)) {
                                         flag=1;
                                        break;
                           if (flag==1) {
                                  System.out.println("Admin page opens");//constructor should be
called
                                  dispose();
                           if(flag==0) {
```

```
JOptionPane.showMessageDialog(new JFrame(), "Make sure the
username and password is correct", " Access Denied", JOptionPane. ERROR_MESSAGE);
                                 dispose();
                                 new LoginPage();
                          con. close();
                    catch(Exception e) {
                          e. printStackTrace();
             }
      }
      public static void main(String[] args) {
             new LoginPage();
      }
SIGN UP PAGE CODE:
package bootathon;
import java.util.regex.*;
import javax.swing.*;
import java.awt.*;
import java.awt.event.ActionListener;
import java.awt.event.ItemEvent;
import java.awt.event.ItemListener;
import java.awt.event.ActionEvent;
```

import java.sql.DriverManager;

```
import java.sql.*;
public class SignupPage extends JFrame{
      Container c=getContentPane();
      JPanel panel=new JPanel();
      JLabel label_firstName=new JLabel();
      JLabel label_lastName=new JLabel();
      JLabel label_age=new JLabel();
      JLabel label gender=new JLabel();
      JLabel label phonenum=new JLabel();
      JLabel label_username=new JLabel();
      JLabel label_password=new JLabel();
      JLabel label_male=new JLabel();
      JLabel label_female=new JLabel();
      JTextField textfield firstName=new JTextField();
      JTextField textfield_lastName=new JTextField();
      JTextField textfield_age=new JTextField();
      JTextField textfield phonenum=new JTextField();
      JTextField textfield_username=new JTextField();
      JPasswordField passwordField();
      JRadioButton radiobutton male=new JRadioButton();
      JRadioButton radiobutton female=new JRadioButton();
      Image icon = Toolkit.getDefaultToolkit().getImage("F:\\Bootathon\\railway.png");
                                                                             Page 11 | 29
```

```
JLabel headingLabel=new JLabel();
JButton signupButton=new JButton();
JButton exitButton=new JButton();
JButton backbutton=new JButton();
public SignupPage() {
      setLayoutManager();
      setNavigationPanel();
      setLocationAndSize();
      addCompenentsToTheConatiner();
      addItemEvent();
      addActionEvent();
      buttonGroup();
      frame();
public void buttonGroup() {
      ButtonGroup bg=new ButtonGroup();
      bg. add(radiobutton_male);
      bg. add(radiobutton_female);
}
public void frame() {
      setTitle("Signup");
      setSize(750,600);
      setResizable(false);
      setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
      setIconImage(icon);
```

```
setLocationRelativeTo(null);
       setVisible(true);
public void setLayoutManager() {
       c. setLayout (null);
public void setNavigationPanel() {
       panel.setBackground(new Color(65, 105, 225));
       panel.setBounds(0, 0, 750, 80);
       panel. add(headingLabel);
}
public void setLocationAndSize() {
       headingLabel. setBounds (90, 0, 550, 80);
       headingLabel.setText("Create an Account");
       headingLabel.setHorizontalAlignment(JLabel.CENTER);
 headingLabel.setFont(new Font("Times Newroman", Font.BOLD, 20));
 headingLabel. setForeground (Color. white);
 label_firstName.setBounds(235, 100, 100, 50);
 label firstName.setText("First Name");
 label_firstName.setFont(new Font("Times Newroman", Font.BOLD, 15));
 label_firstName.setForeground(Color.black);
 label_lastName. setBounds (235, 150, 100, 50);
 label lastName.setText("Last Name");
 label lastName.setFont(new Font("Times Newroman", Font.BOLD, 15));
 label_lastName.setForeground(Color.black);
```

```
label_age. setBounds (235, 200, 100, 50);
label_age. setText("Age");
label_age.setFont(new Font("Times Newroman", Font.BOLD, 15));
label_age.setForeground(Color.black);
label_gender.setBounds(235, 250, 100, 50);
label_gender.setText("Gender");
label_gender.setFont(new Font("Times Newroman", Font.BOLD, 15));
label_gender.setForeground(Color.black);
label_phonenum. setBounds (235, 300, 150, 50);
label_phonenum.setText("Phone number");
label phonenum. setFont (new Font ("Times Newroman", Font. BOLD, 15));
label phonenum. setForeground (Color. black);
label_username.setBounds(235, 350, 150, 50);
label username.setText("Username");
label_username.setFont(new Font("Times Newroman", Font.BOLD, 15));
label_username.setForeground(Color.black);
label password. setBounds (235, 400, 150, 50);
label_password.setText("Password");
label password.setFont(new Font("Times Newroman", Font.BOLD, 15));
label_password.setForeground(Color.black);
label_male.setBounds(380, 250, 150, 50);
label male.setText("male");
label male.setFont(new Font("Times Newroman", Font.BOLD, 15));
label male. setForeground (Color. black);
label_female.setBounds(460, 250, 150, 50);
```

```
label_female.setText("female");
label_female.setFont(new Font("Times Newroman", Font.BOLD, 15));
label_female.setForeground(Color.black);
textfield firstName.setBounds(360, 112, 150, 30);
textfield_lastName.setBounds(360, 162, 150, 30);
textfield_age.setBounds(360, 212, 150, 30);
textfield_phonenum.setBounds(360, 312, 150, 30);
textfield_username.setBounds(360, 362, 150, 30);
passwordfield_password.setBounds(360, 412, 150, 30);
radiobutton male. setBounds (360, 265, 20, 20);
radiobutton_male.setBackground(new Color(135, 206, 250));
radiobutton female. setBounds (440, 265, 20, 20);
radiobutton_female.setBackground(new Color(135, 206, 250));
radiobutton_male.setSelected(true);
     signupButton.setBounds(200, 482, 100, 30);
     signupButton.setText("Sign up");
     signupButton.setBackground(new Color(65, 105, 225));
     signupButton.setForeground(Color.white);
     exitButton.setBounds(500, 482, 100, 30);
     exitButton.setText("Exit");
     exitButton.setBackground(new Color(65, 105, 225));
     exitButton. setForeground(Color. white);
     backbutton.setBounds(350, 482, 100, 30);
```

```
backbutton.setText("Back");
       backbutton.setBackground(new Color(65, 105, 225));
       backbutton.setForeground(Color.white);
}
public void addCompenentsToTheConatiner() {
       c.add(panel);
       c. setBackground(new Color(135, 206, 250));
       c. add(label_firstName);
       c.add(label_lastName);
       c.add(label_age);
       c. add(label_gender);
       c.add(label_phonenum);
       c. add(label_username);
       c. add(label_password);
       c.add(label_male);
       c. add(label_female);
       c. add(signupButton);
       c. add(exitButton);
       c. add (backbutton);
       c. add(textfield_firstName);
       c. add(textfield_lastName);
       c. add(textfield_age);
       c. add(textfield_phonenum);
       c. add(textfield_username);
```

```
c. add(passwordfield_password);
      c. add(radiobutton_male);
      c. add(radiobutton_female);
}
public void addActionEvent() {
      signupButton.addActionListener(new ActionListener() {
             @Override
             public void actionPerformed(ActionEvent e) {
                    try {
                          signup();
                    catch (Exception ex) {
                           ex.printStackTrace();
      });
      exitButton.addActionListener(new ActionListener() {
             @Override
             public void actionPerformed(ActionEvent e) {
                    System. exit(0);
             }
      });
      backbutton.addActionListener(new ActionListener() {
```

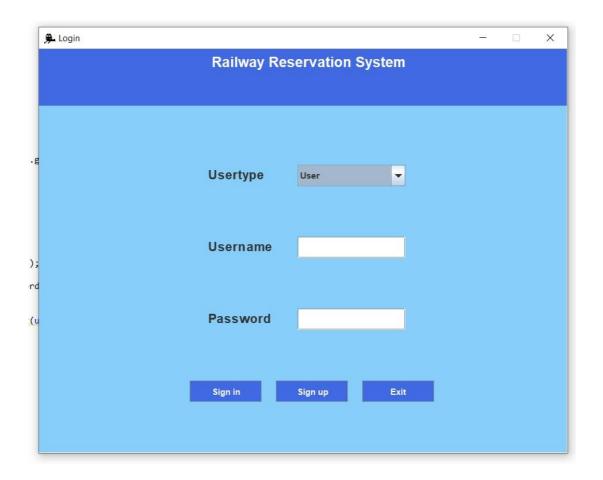
```
public void actionPerformed(ActionEvent e) {
                           dispose();
                           new LoginPage();
             });
      }
      public void signup() throws Exception{
             try {
                    int flag=0;
                    Class. forName ("com. mysql. cj. jdbc. Driver");
                    Connection con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/reservation?serverTimezone=UTC", "root"
,"");
                    Statement stmt=con.createStatement();
                    Statement stmt1=con.createStatement();
                    String first_name=textfield_firstName.getText();
                    String last_name=textfield_lastName.getText();
                    String s_age=textfield_age.getText();
                    String gender;
                    String phone_num=textfield_phonenum.getText();
                    String user_name=textfield_username.getText();
                    String pass_word=passwordfield_password.getText();
                    if (radiobutton_male. isSelected() == true) {
                           gender="male";
                    else {
```

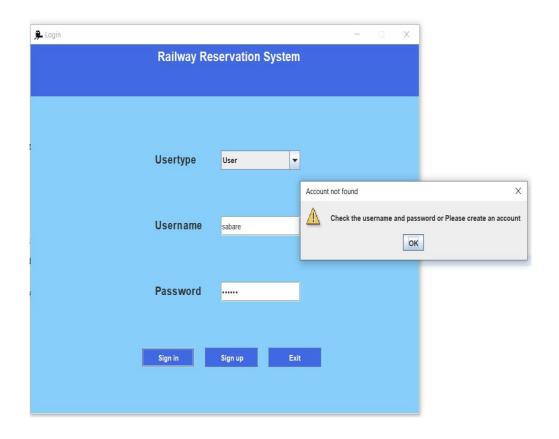
```
gender="female";
                    }
                    Boolean a=Pattern.matches("^[a-zA-Z]*${1,20}", first_name);
                    Boolean b=Pattern.matches("^[a-zA-Z]*\{1,20\}", last_name);
                    Boolean d=Pattern.matches("^{\ }\\d{10}$", phone num);
                    Boolean e=Pattern.matches("^[aA-zZ]\w{5,20}$", user_name);
                    String query="SELECT * from userid";
                    ResultSet rs=stmt.executeQuery(query);
                    while(rs.next()) {
                           if(rs.getString("username").equals(user_name)) {
                                 JOptionPane.showMessageDialog(new JFrame(), "Username not
vaild", "Username already exists!", JOptionPane.ERROR_MESSAGE);
                                 flag=1;
                                 con. close();
                                 break;
                          }
                    if (flag==0) {
                           if(first name.isEmpty()) {
                                 JOptionPane. showMessageDialog(new JFrame(), "Firstname cannot
be empty", "INVALID FIRSTNAME", JOptionPane.ERROR_MESSAGE);
                                 flag=1;
                           else if (a==false) {
                                 JOptionPane. showMessageDialog(new JFrame(), "Firstname should
contain only characters", "INVALID FIRSTNAME", JOptionPane. ERROR_MESSAGE);
                                 flag=1;
                           else if(last name.isEmpty()) {
                                 JOptionPane. showMessageDialog(new JFrame(), "Lastname cannot
be empty", "INVALID LASTNAME", JOptionPane. ERROR_MESSAGE);
                                 flag=1;
```

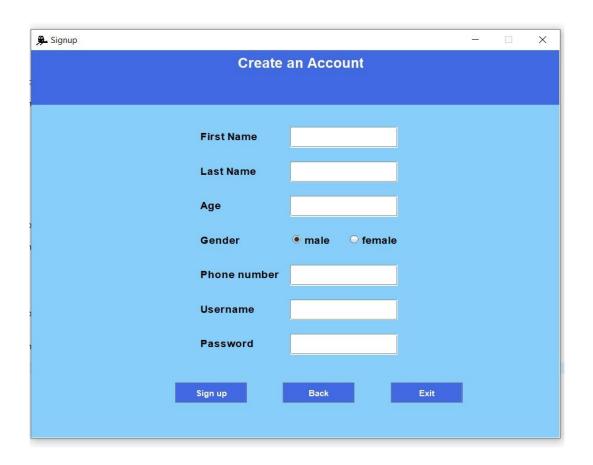
```
else if (b==false) {
                                 JOptionPane.showMessageDialog(new JFrame(), "Lastname should
contain only characters", "INVALID LASTNAME", JOptionPane. ERROR MESSAGE);
                                 flag=1;
                          else if (s age. isEmpty()) {
                                 JOptionPane.showMessageDialog(new JFrame(), "Age should not be
empty", "AGE IS EMPTY", JOptionPane.YES_OPTION);
                                 flag=1:
                          else if (Integer.parseInt(s_age)<18) {
                                 JOptionPane.showMessageDialog(new JFrame(), "Age should be
greater than 18", "AGE IS MINIMUM", JOptionPane.OK_OPTION);
                                 flag=1;
                          else if(phone num.isEmpty()) {
                                 JOptionPane.showMessageDialog(new JFrame(), "Phonenumber
cannot be empty", "INVALID PHONE NUMBER", JOptionPane. ERROR_MESSAGE);
                                 flag=1;
                          else if (d==false) {
                                 JOptionPane. showMessageDialog(new JFrame(), "Phone must be 10-
digit number", "INVALID PHONE NUMBER", JOptionPane. ERROR_MESSAGE);
                                 flag=1;
                          else if (user name. isEmpty()) {
                                 JOptionPane.showMessageDialog(new JFrame(), "Username cannot
be empty", "INVALID USERNAME", JOptionPane. ERROR MESSAGE);
                                 flag=1;
                          else if(e==false) {
                                 JOptionPane.showMessageDialog(new JFrame(), "Username must be
                                                                                Page 20 | 29
```

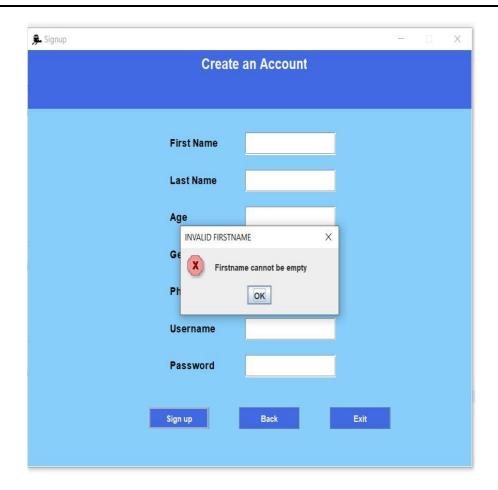
```
5-20 characters", "INVALID USERNAME", JOptionPane. ERROR_MESSAGE);
                                 flag=1;
                           else if(pass_word.isEmpty()) {
                                 JOptionPane.showMessageDialog(new JFrame(), "Password cannot
be empty", "INVALID PASSWORD", JOptionPane. ERROR_MESSAGE);
                                 flag=1;
                           else if (pass_word.length() <8 | pass_word.length() >20) {
                                 JOptionPane.showMessageDialog(new JFrame(), "Password must
contain 8-20 characters", "INVALID PASSWORD", JOptionPane. ERROR MESSAGE);
                                 flag=1;
                           if(flag==0) {
                                 String query1="INSERT into
userid (firstname, lastname, age, gender, phonenumber, username, password)
values('"+first_name+"','"+last_name+"','"+Integer.parseInt(s_age)+"','"+gender+"','"+phone_num
+"','"+user_name+"','"+pass_word+"')";
                                 stmt1.executeUpdate(query1);
                                 JOptionPane.showMessageDialog(new JFrame(), "Account created
successfully", "ACCOUNT CREATED", JOptionPane. INFORMATION_MESSAGE);
                                 JOptionPane.showMessageDialog(new JFrame(), "Please remember
your username and password", "ACCOUNT CREATED", JOptionPane. WARNING MESSAGE);
                                  dispose();
                                 new LoginPage();
                           con.close();
                    }
                    //
             catch(Exception e) {
```

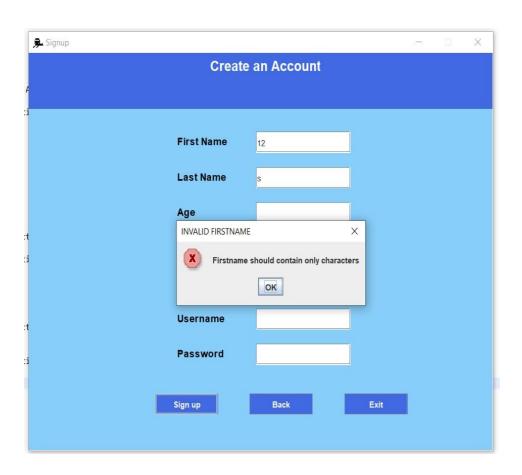
SCREEN SHOTS

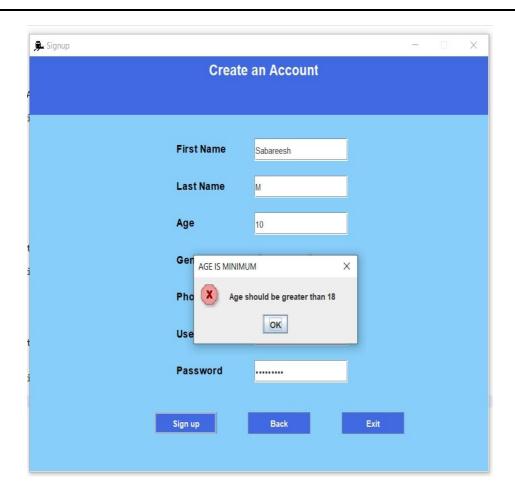


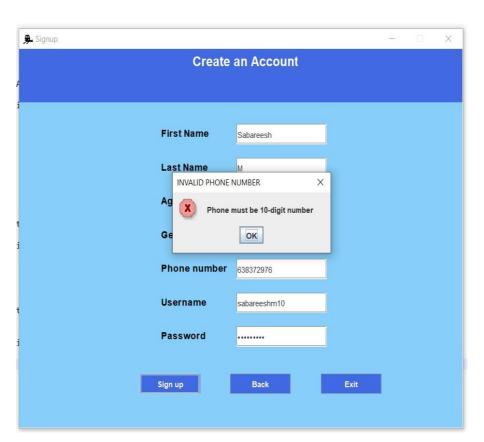


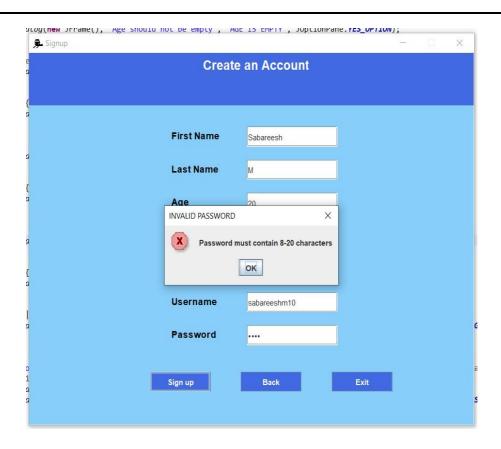


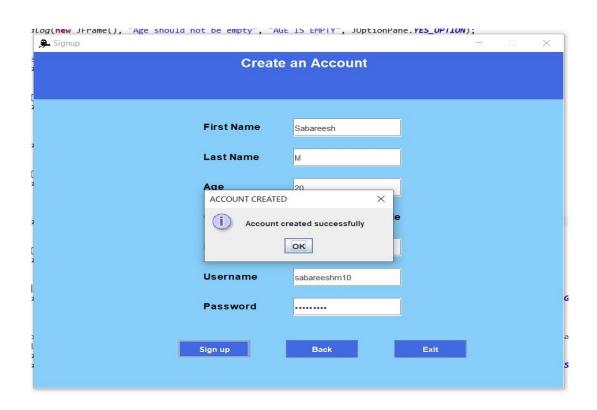


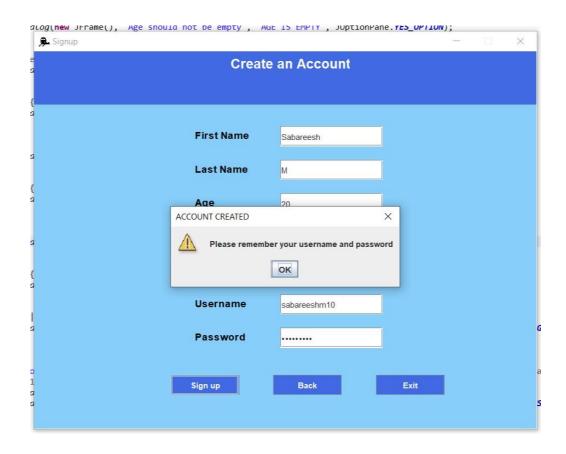


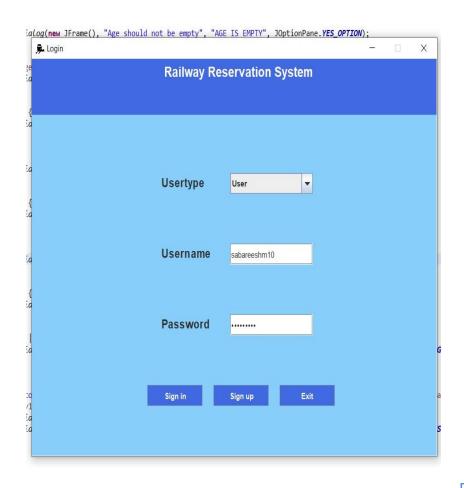


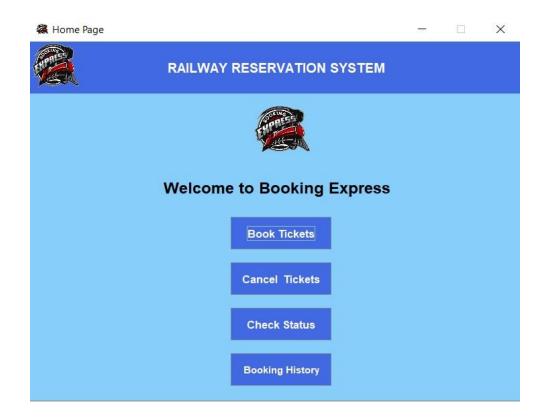












ADMIN PORTAL

